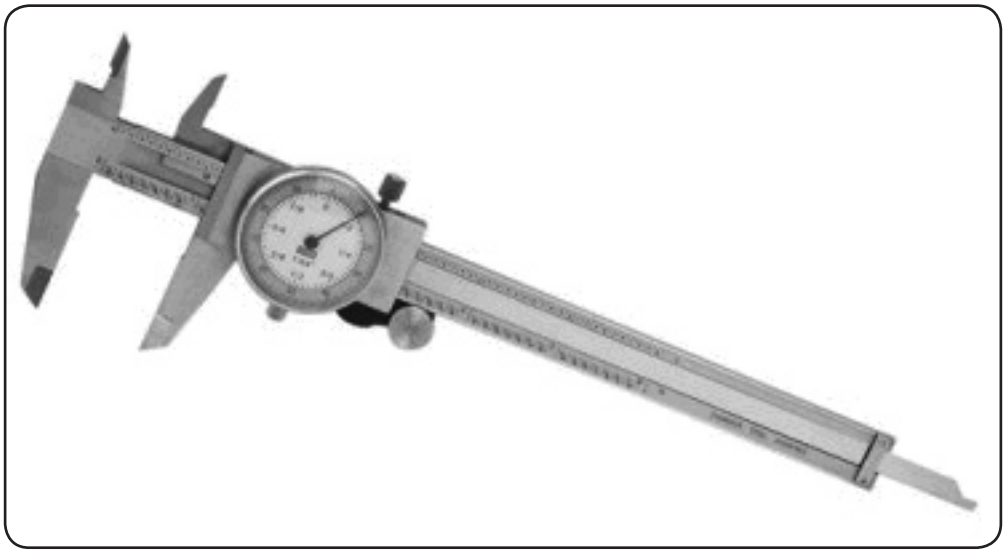
PITTSBURGH®

6” DIAL FRACTIONAL CALIPER

Model 92437

SET UP AND OPERATING INSTRUCTIONS



Visit our website at: http://www.harborfreight.com

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353.

Revised Manual 10h

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠DANGER — **DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.**

⚠WARNING — **WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

⚠CAUTION — **CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.**

NOTICE — **NOTICE is used to address practices not related to personal injury.**

CAUTION — **CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.**

WARNING! Read all instructions
Failure to follow all instructions listed below may result in serious injury.

SAVE THESE INSTRUCTIONS

WORK AREA SAFETY

1. **Keep children and bystanders away while operating. Distractions can cause you to lose control.**
2. Keep work area clean and well lit. Cluttered or dark areas invite accidents.

PERSONAL SAFETY

1. **Wear ANSI-approved safety goggles and heavy-duty work gloves during use and service.**
2. Stay alert and use common sense when operating. Do not use when tired or under the influence of drugs, alcohol or medication.
3. Do not overreach. Keep proper footing and balance at all times. This enables better control in unexpected situations.
4. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

PRODUCT USE AND CARE

1. **This Caliper is not a toy. Keep it out of reach of children.**
2. Use the correct product for your application. The correct product will do the job better and safer at the rate for which it was designed. Do not modify Caliper or use it for a purpose for which it is not intended.
3. Check for binding of moving parts, breakage of parts and any other condition that may affect the Caliper's operation. If damaged, have the Caliper repaired and calibrated before use.
4. Use the product and accessories etc., in accordance with these instructions and in the manner intended for the particular type of product, taking into account the working conditions and the work to be performed. Use of the product for operations different from those intended could result in a hazardous situation.

SERVICE

1. Have Caliper serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
2. Maintain labels and nameplates on the product. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

SPECIFIC SAFETY WARNINGS AND PRECAUTIONS

1. Keep Caliper away from water, oil, solvents and any other liquids.
2. Do not lubricate the Caliper's moving parts.
3. Do not exceed the 6" capacity of Caliper.
4. Handle carefully; the Caliper is a delicate instrument.
5. Do not disassemble Caliper.
6. Use caution when handling. The Caliper has sharp, machined edges.
7. Do not drop or overtighten during use.
8. After use, wipe off and place in storage case and keep in secure and dry location out of reach of children.
9. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS.

SPECIFICATIONS

Maximum Range	6”
Materials	Stainless Steel
Scale Type	Mechanical Dial
Measuring Capabilities	Inside / Outside/ Depth / Step
Caliper Accuracy	+/- .001”

UNPACKING

When unpacking, make sure that item is intact and undamaged. If any parts are missing or broken, call Harbor Freight Tools at the number on the cover of this manual.

OPERATING INSTRUCTIONS

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Please note: Calipers with dials can jump a setting. Always double-check a reading.

1. Make sure upper and lower Outside Diameter Jaw (2) faces are clean. See **Fig. A**.
2. Loosen Slide Scale Lock (6) by turning it counterclockwise.
3. Use Thumb Roll (1) to close Outside Diameter Jaws (2).
4. Sliding Index Edge (7) should line up at “0.”
5. To adjust (if needed), loosen the Dial Adjustment Lock (3) by turning it counterclockwise.
6. Set the Dial (5) by turning the Dial Adjustment (4) either clockwise or counterclockwise until the Dial Needle points to “0”.
7. Lock the Dial (5) on its “0” setting by tightening the Dial Adjustment Lock (3) clockwise. The Caliper is ready to use.

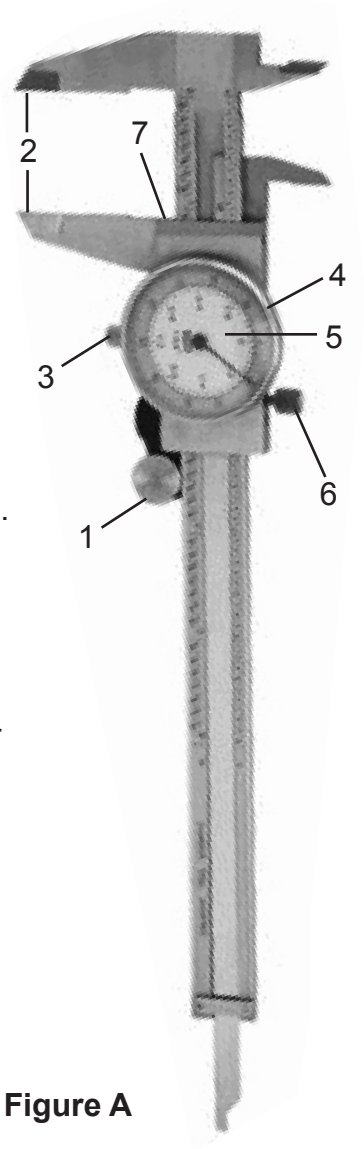


Figure A

8. To read the Scale and Dial, the Sliding Index Edge (7) features readings in inches (0.001” and 0.010” per call-out segment) See **Figure B**, below.

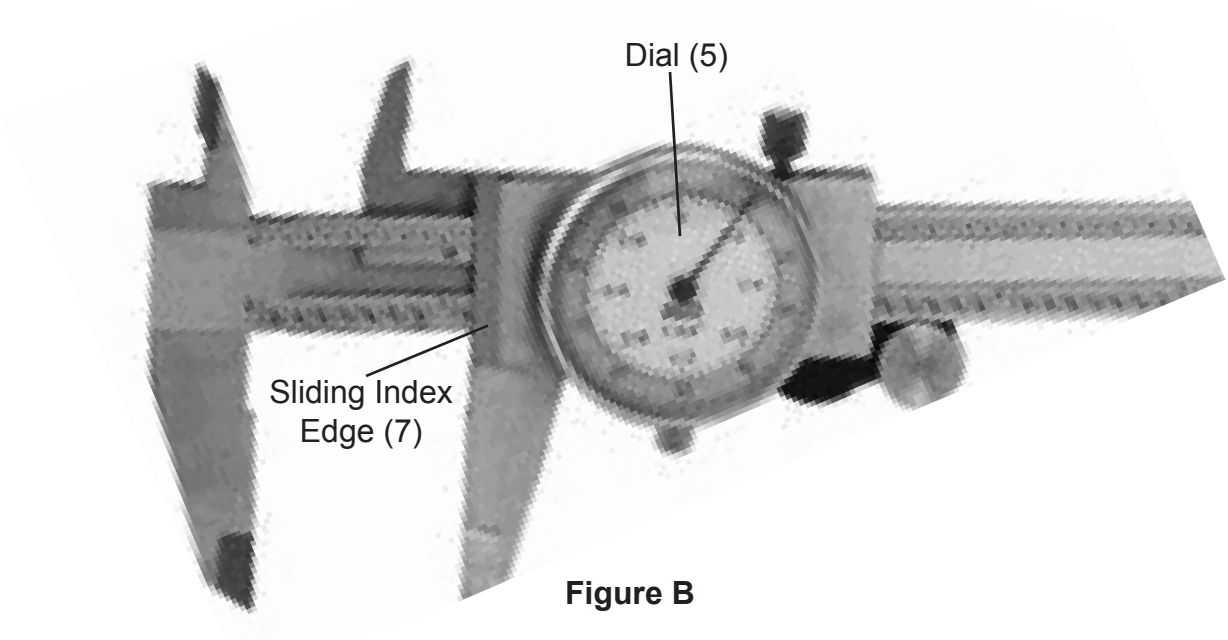


Figure B

9. Read the Scale Measurement Point in inches and tenths of inches (such as 0.5”). Then read the Dial Needle on the Dial in thousandth of an inch (such as .081”).

10. Combine the two readings for a final reading of “0.581.”

11. To use the Caliper to measure the outside diameter of an object, close the Outside Diameter Jaws (2) over the object, making sure that the item rests squarely on the Jaws. See **Figure C**, below.

    Make note of the value along the Sliding Index Edge (7). Then read the whole number indicated by the dial arm. Finally, note the numbers of lines after the whole number. For example, values 1.5, 30 and 3 will read as 1.5”, 0.030” and 0.003”, which equal 1.533”.

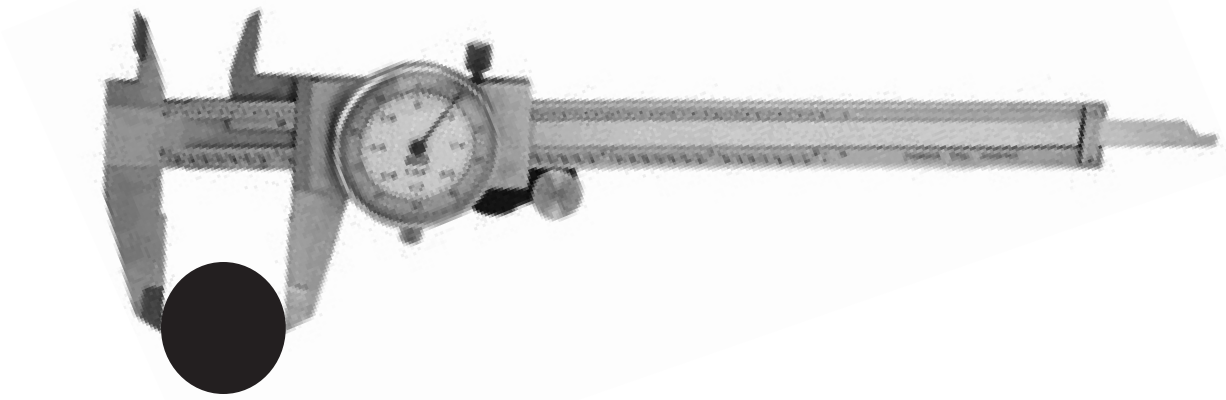


Figure C

12. To use the Caliper to measure the inside diameter of an object, see **Figure D**, below.

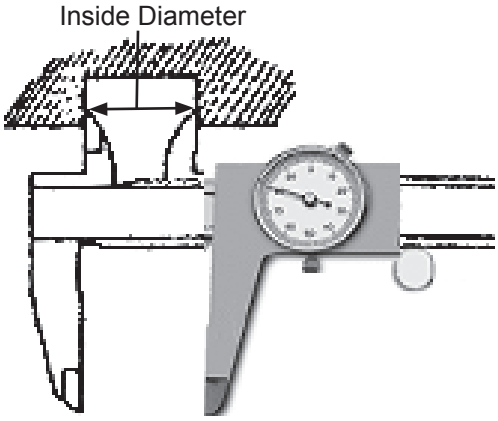


Figure D

13. To make a step measurement of an object, see **Figure E**. To measure the depth of an object, see **Figure F**.

Figure E

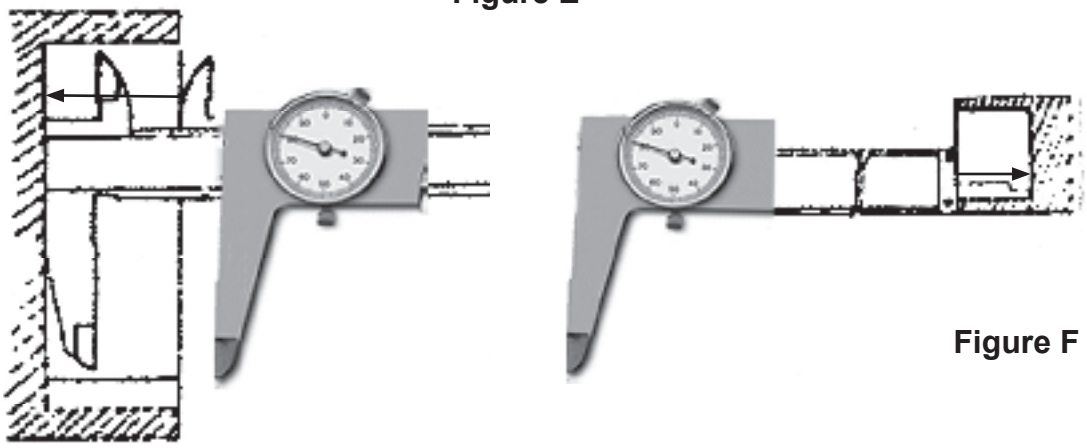


Figure F

MAINTENANCE AND SERVICING

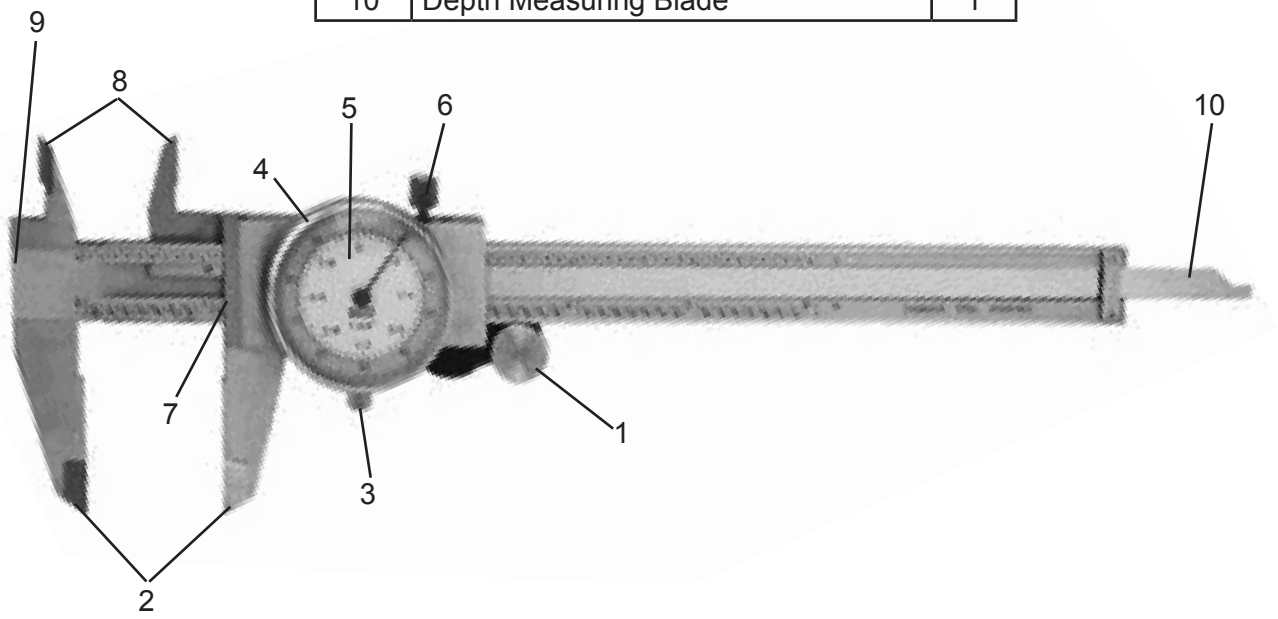
⚠CAUTION **Damaged products can fail, causing personal injury. Do not use a damaged product.**

Cleaning, maintenance, and lubrication

1. **BEFORE EACH USE,** inspect the general condition of Caliper. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
2. **AFTER USE,** clean external surfaces of the product with clean cloth.
3. **STORE** in carrying case and keep in dry and secure location.

PARTS LIST AND ASSEMBLY DIAGRAM

Part	Description	Qty.
1	Thumb Roll	1
2	Outside Diameter Jaws	2
3	Dial Adjustment Lock	1
4	Dial Adjustment	1
5	Dial	1
6	Slide Scale Lock	1
7	Sliding Index Edge	1
8	Inside Diameter Jaws	2
9	Step Measuring Surface	1
10	Depth Measuring Blade	1



PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.